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April 30, 2021

**VIA ELECTRONIC FILING**

The Honorable Jocelyn G. Boyd  
Chief Clerk/Executive Director  
Public Service Commission of South Carolina  
101 Executive Center Drive, Suite 100  
Columbia, SC 29210

**Re: Duke Energy Progress, LLC- Monthly Fuel Report**  
**Docket Number: 2006-176-E**

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of March 2021.

Also enclosed for filing is a revised version of Schedule 10 to Duke Energy Progress, LLC's December 2020 Monthly Fuel Report. The revised schedule reflects an update to Duke Energy Progress, LLC's Robinson Nuclear Station's Equivalent Availability (%) on page one.

Sincerely,

Katie M. Brown

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff  
Ms. Nanette Edwards, Office of Regulatory Staff  
Mr. Jeff Nelson, Office of Regulatory Staff  
Mr. Michael Seaman-Huynh, Office of Regulatory Staff  
Mr. Ryder Thompson, Office of Regulatory Staff

## Schedule 1

DUKE ENERGY PROGRESS  
SUMMARY OF MONTHLY FUEL REPORT

Line No.	Item	MARCH 2021
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 99,982,182
	MWH sales:	
2	Total System Sales	5,029,404
3	Less intersystem sales	<u>230,017</u>
4	Total sales less intersystem sales	<u>4,799,387</u>
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	<u>2.0832</u>
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	<u>2.2590</u>
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	288,885
8	Oil	3,534
9	Natural Gas - Combustion Turbine	151,112
10	Natural Gas - Combined Cycle	1,405,302
11	Biogas	<u>1,450</u>
12	Total Fossil	<u>1,850,284</u>
13	Nuclear	2,137,964
14	Hydro - Conventional	95,428
15	Solar Distributed Generation	19,594
16	Total MWH generation	<u>4,103,270</u>

Note: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS  
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	MARCH 2021
<b>Fuel and Fuel-Related Costs:</b>	
<b>Steam Generation - Account 501</b>	
0501110 coal consumed - steam	\$ 11,337,777
0501310 fuel oil consumed - steam	508,607
Total Steam Generation - Account 501	<u>11,846,384</u>
<b>Nuclear Generation - Account 518</b>	
0518100 burnup of owned fuel	12,487,630
<b>Other Generation - Account 547</b>	
0547000 natural gas consumed - Combustion Turbine	6,514,654
0547000 natural gas capacity - Combustion Turbine	1,165,130
0547000 natural gas consumed - Combined Cycle	29,237,099
0547000 natural gas capacity - Combined Cycle	11,631,148
0547106 biogas consumed - Combined Cycle	64,870
0547200 fuel oil consumed	67,114
Total Other Generation - Account 547	<u>48,680,015</u>
<b>Purchased Power and Net Interchange - Account 555</b>	
Fuel and fuel-related component of purchased power	28,752,571
Fuel and fuel-related component of DERP purchases	47,014
PURPA purchased power capacity	4,073,058
DERP purchased power capacity	10,866
Total Purchased Power and Net Interchange - Account 555	<u>32,883,509</u>
<b>Less:</b>	
Fuel and fuel-related costs recovered through intersystem sales	6,478,675
Solar Integration Charge	10
Miscellaneous Fees Collected	-
Total Fuel Credits - Accounts 447/456	<u>6,478,685</u>
<b>Total Costs Included in Base Fuel Component</b>	<b>\$ 99,418,853</b>
<b>Environmental Costs</b>	
0509030, 0509212, 0557451 emission allowance expense	\$ 2,380
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	589,702
Emission Allowance Gains	-
Less reagents expense recovered through intersystem sales - Account 447	18,580
Less emissions expense recovered through intersystem sales - Account 447	<u>10,173</u>
<b>Total Costs Included in Environmental Component</b>	<b>563,329</b>
<b>Fuel and Fuel-related Costs excluding DERP incremental costs</b>	<b><u>\$ 99,982,182</u></b>
<b>DERP Incremental Costs</b>	<b>289,424</b>
<b>Total Fuel and Fuel-related Costs</b>	<b><u>\$ 100,271,606</u></b>

## Notes:

Detail amounts may not add to totals shown due to rounding.  
DERP details are presented on Page 2.

DUKE ENERGY PROGRESS  
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	MARCH 2021
DERP Avoided Costs (Total Capacity and Energy)	
Purchased Power Agreements	\$ 5,480
Shared Solar Program	500
Total DERP Avoided Costs	\$ 5,979
DERP Incremental Costs	
Purchased Power Agreements	1,708
DERP NEM Incentive	166,793
Solar Rebate Program - Amortization	50,290
Solar Rebate Program - Carrying Costs	39,393
Shared Solar Program	776
NEM Avoided Capacity Costs	405
NEM Meter Costs	10,161
General and Administrative Expenses	19,872
Interest on under-collection due to cap	27
Total DERP Incremental Costs	\$ 289,424

## Notes:

Detail amounts may not add to totals shown due to rounding.  
All amounts represent SC retail.

**DUKE ENERGY PROGRESS  
PURCHASED POWER AND INTERCHANGE  
SOUTH CAROLINA**

Schedule 3, Purchases  
Page 1 of 2

**MARCH 2021**

<b>Purchased Power</b>	<b>Total</b>	<b>Capacity</b>	<b>Non-capacity</b>		
<b>Marketers, Utilities, Other</b>	<b>\$</b>	<b>\$</b>	<b>mWh</b>	<b>Fuel \$</b>	<b>Non-fuel \$</b>
DE Carolinas - Emergency	-	-	-	-	-
DE Carolinas - Reliability	\$ 1,052,684	-	26,702	\$ 1,052,684	-
Broad River Energy, LLC	3,365,900	\$ 2,445,642	13,004	920,258	-
City of Fayetteville	865,467	708,500	755	156,967	-
DE Carolinas - Native Load Transfer	5,054,174	-	216,074	5,061,351	\$ (7,177)
DE Carolinas - Native Load Transfer Benefit	1,372,518	-	-	1,372,518	-
DE Carolinas - Fees	807	-	-	807	-
Haywood EMC	28,000	28,000	-	-	-
NCEMC	3,184,724	2,761,898	9,649	422,826	-
PJM Interconnection, LLC	46,081	-	1,600	46,081	-
Southern Company Services	5,023,316	2,388,167	59,881	2,635,149	-
Energy Imbalance	14,257	-	591	13,110	1,147
Generation Imbalance	1,087	-	70	991	96
	<b>\$ 20,009,015</b>	<b>\$ 8,332,207</b>	<b>328,326</b>	<b>\$ 11,682,742</b>	<b>\$ (5,934)</b>
<b>Act 236 PURPA Purchases</b>					
DERP Qualifying Facilities	\$ 60,015	-	1,321	\$ 60,015	-
Other Qualifying Facilities	10,179,006	-	179,195	10,179,006	-
Renewable Energy	10,963,881	-	160,155	10,963,881	-
	<b>\$ 21,202,902</b>	<b>-</b>	<b>340,671</b>	<b>\$ 21,202,902</b>	<b>-</b>
<b>Total Purchased Power</b>	<b>\$ 41,211,917</b>	<b>\$ 8,332,207</b>	<b>668,997</b>	<b>\$ 32,885,644</b>	<b>\$ (5,934)</b>

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS  
INTERSYSTEM SALES\*  
SOUTH CAROLINA**

Schedule 3, Sales  
Page 2 of 2

**MARCH 2021**

<b>Sales</b>	<b>Total \$</b>	<b>Capacity \$</b>	<b>mWh</b>	<b>Non-capacity Fuel \$</b>	<b>Non-fuel \$</b>
<b>Market Based:</b>					
NCEMC Purchase Power Agreement	\$ 1,026,299	\$ 652,500	12,078	\$ 281,524	\$ 92,275
PJM Interconnection, LLC	224,005	-	13,150	236,541	(12,536)
<b>Other:</b>					
DE Carolinas - Native Load Transfer	5,324,959	-	204,764	5,074,262	250,697
DE Carolinas - Native Load Transfer Benefit	915,117	-	-	915,117	-
Generation Imbalance	(46)	-	25	(16)	(30)
<b>Total Intersystem Sales</b>	<b>\$ 7,490,334</b>	<b>\$ 652,500</b>	<b>230,017</b>	<b>\$ 6,507,428</b>	<b>\$ 330,406</b>

\* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

**Duke Energy Progress  
(Over) / Under Recovery of Fuel Costs  
MARCH 2021**

**Schedule 4  
Page 1 of 3**

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,799,386,806
2	DERP Net Metered kWh generation	Input					2,576,658
3	Adjusted System kWh sales	L1 + L2					4,801,963,464
4	Actual S.C. Retail kWh sales	Input	177,893,777	19,869,373	291,668,727	6,422,765	495,854,642
5	DERP Net Metered kWh generation	Input	1,298,558	18,498	1,259,602		2,576,658
6	Adjusted S.C. Retail kWh sales	L4 + L5	179,192,335	19,887,871	292,928,329	6,422,765	498,431,300
7	Actual S.C. Demand units (kw)	L32 / 31b *100			679,333		
<b>Base fuel component of recovery - non-capacity</b>							
8	Incurred System base fuel - non-capacity expense	Input					\$82,491,637
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$58,297
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$82,549,934
11	Adjusted Incurred System base fuel - non-capacity rate (\$/kWh)	L10 / L3 * 100					1.719
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$3,080,472	\$341,890	\$5,035,693	\$110,413	\$8,568,468
13	Assign 100 % of Avoided Fuel Benefit of S.C. net metering	Input	(\$26,656)	(\$3,687)	(\$27,954)	\$0	(\$58,297)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$3,053,816	\$338,203	\$5,007,739	\$110,413	\$8,510,171
15	Billed base fuel - non-capacity rate (\$/kWh) - Note 1	Input	1.888	1.887	1.887	1.887	1.887
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	\$3,358,977	\$374,935	\$5,503,789	\$121,198	\$9,358,899
17	DERP NEM incentive - fuel component	Input	\$1,818	\$251	\$1,906	\$0	\$3,975
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$3,360,795	\$375,186	\$5,505,695	\$121,198	\$9,362,874
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L14 - L18	(\$306,979)	(\$36,983)	(\$497,956)	(\$10,785)	(\$852,703)
20	Adjustment	Input	\$ 217,765	\$ 27,265	\$ 391,664	\$ 8,205	\$ 644,899
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	(\$89,214)	(\$9,718)	(\$106,292)	(\$2,580)	(\$207,804)
<b>Base fuel component of recovery - capacity</b>							
22a	Incurred base fuel - capacity rates by class (\$/kWh)	L23 / L4 * 100	0.448	0.555			
22b	Incurred base fuel - capacity rate (\$/kW)	L23 / L7 * 100			123		
23	Incurred S.C. base fuel - capacity expense	Input	\$796,916	\$110,231	\$835,730		\$1,742,877
24a	Billed base fuel - capacity rates by class (\$/kWh) - Note 2	Input	0.528	0.358			
24b	Billed base fuel - capacity rate (\$/kW)	Input			108		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	\$940,019	\$71,132	\$733,667	\$0	\$1,744,818
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L23 - L25	(\$143,103)	\$39,099	\$102,063	\$0	(\$1,941)
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	(\$143,103)	\$39,099	\$102,063	\$0	(\$1,941)
<b>Environmental component of recovery</b>							
29a	Incurred environmental rates by class (\$/kWh)	L30 / L4 * 100	0.015	0.019			
29b	Incurred environmental rate (\$/kW)	L30 / L7 * 100			4		
30	Incurred S.C. environmental expense	Input	\$26,612	\$3,681	\$27,908		\$58,201
31a	Billed environmental rates by class (\$/kWh) - Note 3	Input	0.021	0.012			
31b	Billed environmental rate (\$/kW)	Input			6		
32	Billed S.C. environmental revenue	L31a * L4 /100	\$37,106	\$2,384	\$40,760		\$80,250
33	S.C. environmental (over)/under recovery [See footnote]	L30 - L32	(\$10,494)	\$1,297	(\$12,852)	\$0	(\$22,049)
34	Adjustment	Input					
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	(\$10,494)	\$1,297	(\$12,852)	\$0	(\$22,049)
<b>Distributed Energy Resource Program component of recovery: avoided costs</b>							
36a	Incurred S.C. DERP avoided cost rates by class (\$/kWh)	L37 / L4 * 100	0.002	0.002			
36b	Incurred S.C. DERP avoided cost rates by class (\$/kW)	L37 / L7 * 100			0		
37	Incurred S.C. DERP avoided cost expense	Input	\$2,734	\$378	\$2,867		\$5,979
38a	Billed S.C. DERP avoided cost rates by class (\$/kWh) - Note 4	Input	0.002	0.001			
38b	Billed S.C. DERP avoided cost rates by class (\$/kW)	Input			2		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	\$3,533	\$199	\$13,586		\$17,318
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L37 - L39	(\$799)	\$179	(\$10,719)	\$0	(\$11,339)
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	(\$799)	\$179	(\$10,719)	\$0	(\$11,339)
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	(\$243,610)	\$30,857	(\$27,800)	(\$2,580)	(\$243,133)

**Duke Energy Progress  
(Over) / Under Recovery of Fuel Costs  
MARCH 2021**

**Schedule 4  
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Cumulative (over) / under recovery - **BASE FUEL NON-CAPACITY**

Balance ending February 2020

	Cumulative	Total Residential	Demand	Demand	Lighting	Total
March 2020 - actual	\$8,184,894					
April 2020 - actual	6,703,728	(\$500,048)	(\$60,906)	(\$900,533)	(\$19,679)	(\$1,481,166)
May 2020 - actual	4,364,676	(697,174)	(89,196)	(1,518,585)	(34,097)	(2,339,052)
June 2020 - actual	4,577,719	65,636	6,313	137,505	3,589	213,043
July 2020 - actual	4,478,233	(30,783)	(6,228)	(61,363)	(1,112)	(99,486)
August 2020 - actual	6,715,676	792,265	102,353	1,317,188	25,637	2,237,443
September 2020 - actual	8,724,125	679,243	87,051	1,222,797	19,358	2,008,449
October 2020 - actual	8,099,982	(235,888)	(34,162)	(346,669)	(7,424)	(624,143)
November 2020 - actual	5,919,391	(611,844)	(94,900)	(1,444,195)	(29,652)	(2,180,591)
December 2020 - actual	5,901,814	(8,035)	(2,590)	(6,889)	(63)	(17,577)
January 2021 - actual	8,226,014	949,968	107,651	1,234,404	32,177	2,324,200
February 2021 - actual	9,400,229	494,440	49,682	617,120	12,973	1,174,215
March 2021 - actual	10,892,003	604,085	59,986	810,591	17,112	1,491,774
April 2021 - forecast	10,684,199	(89,214)	(9,718)	(106,292)	(2,580)	(207,804)
May 2021 - forecast	9,202,545	(475,231)	(66,562)	(917,804)	(22,057)	(1,481,654)
June 2021 - forecast	9,226,114	7,101	1,089	15,018	361	23,569
	\$9,148,322	(26,296)	(3,404)	(46,970)	(1,122)	(\$77,792)

Cumulative (over) / under recovery - **BASE FUEL CAPACITY**

Balance ending February 2020

	Cumulative	Total Residential	Demand	Demand	Lighting	Total
March 2020 - actual	\$2,280,576					
April 2020 - actual	2,080,723	(\$542,342)	(\$57,884)	\$400,373	\$0	(\$199,853)
May 2020 - actual	2,576,867	198,269	22,469	275,406	0	496,144
June 2020 - actual	3,180,854	603,866	26,727	313,394	0	603,987
July 2020 - actual	3,332,298	(50,274)	(6,671)	208,389	0	151,444
August 2020 - actual	3,922,473	144,961	17,783	427,431	0	590,175
September 2020 - actual	4,544,592	227,860	33,406	360,853	0	622,119
October 2020 - actual	4,825,152	107,838	15,343	157,379	0	280,560
November 2020 - actual	5,414,755	393,328	35,047	161,228	0	589,603
December 2020 - actual	5,772,003	276,764	25,524	54,960	0	357,248
January 2021 - actual	5,704,739	(96,034)	10,781	17,989	0	(67,264)
February 2021 - actual	5,405,675	(449,779)	17,040	133,675	0	(299,064)
March 2021 - actual	5,044,753	(439,837)	17,043	61,872	0	(360,922)
April 2021 - forecast	5,042,812	(143,103)	39,099	102,063	0	(1,941)
May 2021 - forecast	5,234,471	174,702	19,850	(2,893)	0	191,659
June 2021 - forecast	5,565,075	259,823	21,057	49,724	0	330,604
	\$5,577,809	(639)	9,799	3,574	0	\$12,734

Cumulative (over) / under recovery - **ENVIRONMENTAL**

Balance ending February 2020

	Cumulative	Total Residential	Demand	Demand	Lighting	Total
March 2020 - actual	(\$86,728)					
April 2020 - actual	(234,402)	(\$97,924)	(\$9,094)	(\$40,656)	\$0	(\$147,674)
May 2020 - actual	(399,194)	(93,739)	(9,066)	(61,987)	0	(164,792)
June 2020 - actual	(553,737)	(87,410)	(8,677)	(58,456)	0	(154,543)
July 2020 - actual	(605,586)	(41,045)	(4,402)	(6,402)	0	(51,849)
August 2020 - actual	(555,502)	13,176	1,515	35,393	0	50,084
September 2020 - actual	(382,799)	93,287	10,247	69,169	0	172,703
October 2020 - actual	(371,786)	10,098	1,743	(828)	0	11,013
November 2020 - actual	(414,291)	(13,748)	(1,090)	(27,667)	0	(42,505)
December 2020 - actual	(462,895)	(16,765)	(1,338)	(30,501)	0	(48,604)
January 2021 - actual	(436,892)	17,084	2,954	5,965	0	26,003
February 2021 - actual	(413,163)	3,051	4,066	16,612	0	23,729
March 2021 - actual	(348,874)	23,431	6,808	34,050	0	64,289
April 2021 - forecast	(370,923)	(10,494)	1,297	(12,852)	0	(22,049)
May 2021 - forecast	(389,605)	(543)	549	(18,688)	0	(18,682)
June 2021 - forecast	(440,615)	(17,610)	(1,426)	(31,974)	0	(51,010)
	(\$430,471)	10,996	1,997	(2,849)	0	\$10,144

Cumulative (over) / under recovery - **DERP AVOIDED COSTS**

Balance ending February 2020

	Cumulative	Total Residential	Demand	Demand	Lighting	Total
March 2020 - actual	\$12,641					
April 2020 - actual	11,876	(\$2,864)	(\$414)	\$2,513	\$0	(\$765)
May 2020 - actual	12,921	(964)	(203)	2,212	0	1,045
June 2020 - actual	16,781	603	(55)	3,312	0	3,860
July 2020 - actual	32,685	6,591	490	8,823	0	15,904
August 2020 - actual	32,855	1,192	62	(1,084)	0	170
September 2020 - actual	30,362	3,988	534	(7,015)	0	(2,493)
October 2020 - actual	22,557	1,299	236	(9,340)	0	(7,805)
November 2020 - actual	16,369	2,282	278	(8,748)	0	(6,188)
December 2020 - actual	14,029	4,291	480	(7,111)	0	(2,340)
January 2021 - actual	2,953	(665)	87	(10,498)	0	(11,076)
February 2021 - actual	(7,867)	(1,761)	138	(9,197)	0	(10,820)
March 2021 - actual	(19,309)	(1,614)	150	(9,978)	0	(11,442)
April 2021 - forecast	(30,648)	(799)	179	(10,719)	0	(11,339)
May 2021 - forecast	(34,002)	4,709	554	(8,617)	0	(3,354)
June 2021 - forecast	(33,886)	6,197	672	(6,753)	0	116
	(\$37,597)	3,747	490	(7,948)	0	(\$3,711)



**Duke Energy Progress  
(Over) / Under Recovery of Fuel Costs  
MARCH 2021**

Schedule 4  
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Line No.			Residential	Commercial	Industrial	Total
<b>Distributed Energy Resource Program component of recovery: incremental costs</b>						
44	Incurring S.C. DERP incremental expense	Input	\$132,337	\$95,508	\$61,579	\$289,424
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	1.00	3.67	99.50	
46	Billed S.C. DERP incremental revenue	Input	\$146,912	\$124,597	\$26,747	\$298,256
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	(14,575)	(\$29,089)	\$34,832	(\$8,832)
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	<b>(\$14,575)</b>	<b>(\$29,089)</b>	<b>\$34,832</b>	<b>(\$8,832)</b>

Cumulative (over) / under recovery	Cumulative	Total
Balance ending February 2020	\$45,020	
March 2020 - actual	22,698	(\$22,322)
April 2020 - actual	19,428	(3,270)
May 2020 - actual	14,695	(4,733)
June 2020 - actual	25,056	10,361
July 2020 - actual	76,859	51,803
August 2020 - actual	98,892	22,033
September 2020 - actual	147,012	48,120
October 2020 - actual	165,750	18,738
November 2020 - actual	153,788	(11,962)
December 2020 - actual	137,210	(16,578)
January 2021 - actual	142,143	4,933
February 2021 - actual	173,594	31,451
March 2021 - actual	164,762	(8,832)
April 2021 - forecast	200,524	35,762
May 2021 - forecast	237,022	36,498
June 2021 - forecast	\$271,487	\$34,464

**Notes:**

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.

Under collections, or regulatory assets, are shown as positive amounts.

- \_/1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of 1.901 and RECD 5% discount.
- \_/2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .532 and RECD 5% discount.
- \_/3 Total residential billed environmental rate is a composite rate reflecting the 7/1/20 approved residential rate of .021 and RECD 5% discount.
- \_/4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .002 and RECD 5% discount.

**Duke Energy Progress**  
**Fuel and Fuel Related Cost Report**  
**MARCH 2021**

Schedule 5  
Page 1 of 2

Description	Mayo Steam	Roxboro Steam	Asheville CC/CT	Smith Energy Complex CC/CT	Sutton CC/CT	Lee CC	Blewett CT
<b>Cost of Fuel Purchased (\$)</b>							
Coal	\$2,061,894	\$15,532,843	-	-	-	-	-
Oil	170,537	480,943	\$1,041,674	-	-	-	-
Gas - CC	-	-	8,943,847	\$14,520,418	\$12,723,449	\$4,680,533	-
Gas - CT	-	-	296,206	4,364,668	190,727	-	-
Biogas	-	-	-	330,810	-	-	-
Total	\$2,232,431	\$16,013,786	\$10,281,727	\$19,215,896	\$12,914,176	\$4,680,533	-
<b>Average Cost of Fuel Purchased (¢/MBTU)</b>							
Coal	353.09	249.47	-	-	-	-	-
Oil	1,369.34	1,412.21	2,025.30	-	-	-	-
Gas - CC	-	-	399.76	364.51	468.85	638.94	-
Gas - CT	-	-	470.43	390.40	1,298.70	-	-
Biogas	-	-	-	3,043.61	-	-	-
Weighted Average	374.31	255.79	401.70	375.87	473.32	638.94	-
<b>Cost of Fuel Burned (\$)</b>							
Coal	-	\$11,337,777	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	-	508,608	\$829	-	-	-	-
Gas - CC	-	-	8,943,847	\$14,520,418	\$12,723,449	\$4,680,533	-
Gas - CT	-	-	296,206	4,364,668	190,727	-	-
Biogas	-	-	-	330,810	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	-	\$11,846,385	\$9,240,882	\$19,215,896	\$12,914,176	\$4,680,533	-
<b>Average Cost of Fuel Burned (¢/MBTU)</b>							
Coal	-	310.49	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	-	1,227.69	1,564.15	-	-	-	-
Gas - CC	-	-	399.76	364.51	468.85	638.94	-
Gas - CT	-	-	470.43	390.40	1,298.70	-	-
Biogas	-	-	-	3,043.61	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	-	320.78	401.73	375.87	473.32	638.94	-
<b>Average Cost of Generation (¢/kWh)</b>							
Coal	-	3.84	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	-	14.52	25.81	-	-	-	-
Gas - CC	-	-	2.58	2.51	3.39	4.46	-
Gas - CT	-	-	7.03	5.79	13.80	-	-
Biogas	-	-	-	22.82	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	-	3.96	2.64	2.93	3.43	4.46	-
<b>Burned MBTU's</b>							
Coal	-	3,651,542	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	-	41,428	53	-	-	-	-
Gas - CC	-	-	2,237,280	3,983,544	2,713,749	732,547	-
Gas - CT	-	-	62,965	1,117,990	14,686	-	-
Biogas	-	-	-	10,869	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	-	3,692,970	2,300,298	5,112,403	2,728,435	732,547	-
<b>Net Generation (mWh)</b>							
Coal	(6,496)	295,381	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	-	3,504	3	-	-	-	-
Gas - CC	-	-	345,991	578,866	375,526	104,919	-
Gas - CT	-	-	4,214	75,346	1,382	-	-
Biogas	-	-	-	1,450	-	-	-
Nuclear	-	-	-	-	-	-	-
Hydro (Total System)	-	-	-	-	-	-	-
Solar (Total System)	-	-	-	-	-	-	-
Total	(6,496)	298,885	350,208	655,662	376,908	104,919	-
<b>Cost of Reagents Consumed (\$)</b>							
Ammonia	\$10,413	\$71,325	-	\$13,485	-	-	-
Limestone	-	359,201	-	-	-	-	-
Re-emission Chemical	-	-	-	-	-	-	-
Sorbents	1,510	137,575	-	-	-	-	-
Urea	-	-	-	-	-	-	-
Total	\$11,923	\$568,101	-	\$13,485	-	-	-

**Notes:**

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

**Duke Energy Progress**  
**Fuel and Fuel Related Cost Report**  
**MARCH 2021**

**Schedule 5**  
**Page 2 of 2**

Description	Darlington CT	Wayne County CT	Weatherspoon CT	Brunswick Nuclear	Harris Nuclear	Robinson Nuclear	Current Month	Total 12 ME MARCH 2021
<b>Cost of Fuel Purchased (\$)</b>								
Coal	-	-	-	-	-	-	\$17,594,737	\$242,667,570
Oil	-	-	-	-	-	-	1,693,154	5,983,107
Gas - CC	-	-	-	-	-	-	40,868,247	535,076,532
Gas - CT	\$2,016	\$2,826,153	\$14	-	-	-	7,679,784	56,847,343
Biogas	-	-	-	-	-	-	330,810	4,653,130
Total	\$2,016	\$2,826,153	\$14	-	-	-	\$68,166,732	\$845,227,682
<b>Average Cost of Fuel Purchased (¢/MBTU)</b>								
Coal	-	-	-	-	-	-	258.35	367.13
Oil	-	-	-	-	-	-	1,728.71	1,299.29
Gas - CC	-	-	-	-	-	-	422.76	381.61
Gas - CT	380.38	353.86	-	-	-	-	384.98	331.67
Biogas	-	-	-	-	-	-	3,043.61	2,822.56
Weighted Average	380.38	353.86	-	-	-	-	366.86	377.22
<b>Cost of Fuel Burned (\$)</b>								
Coal	-	-	-	-	-	-	\$11,337,777	\$307,088,787
Oil - CC	-	-	-	-	-	-	-	227,065
Oil - Steam/CT	\$35,200	\$1,587	\$29,498	-	-	-	575,722	14,249,752
Gas - CC	-	-	-	-	-	-	40,868,247	535,076,532
Gas - CT	2,016	2,826,153	14	-	-	-	7,679,784	56,847,343
Biogas	-	-	-	-	-	-	330,810	4,653,130
Nuclear	-	-	-	\$4,839,760	\$4,213,898	\$3,433,972	12,487,630	172,857,049
Total	\$37,216	\$2,827,740	\$29,512	\$4,839,760	\$4,213,898	\$3,433,972	\$73,279,970	\$1,090,999,658
<b>Average Cost of Fuel Burned (¢/MBTU)</b>								
Coal	-	-	-	-	-	-	310.49	358.50
Oil - CC	-	-	-	-	-	-	-	1,522.90
Oil - Steam/CT	1,722.96	1,743.96	1,591.05	-	-	-	1,266.19	1,507.90
Gas - CC	-	-	-	-	-	-	422.76	381.61
Gas - CT	380.38	353.86	-	-	-	-	384.98	331.67
Biogas	-	-	-	-	-	-	3,043.61	2,822.56
Nuclear	-	-	-	56.86	56.40	57.90	56.99	56.42
Weighted Average	1,446.40	354.01	1,591.80	56.86	56.40	57.90	196.55	198.17
<b>Average Cost of Generation (¢/kWh)</b>								
Coal	-	-	-	-	-	-	3.92	4.11
Oil - CC	-	-	-	-	-	-	-	14.55
Oil - Steam/CT	969.43	19.96	184.36	-	-	-	16.29	25.57
Gas - CC	-	-	-	-	-	-	2.91	2.72
Gas - CT	-	4.03	-	-	-	-	5.08	3.93
Biogas	-	-	-	-	-	-	22.82	19.99
Nuclear	-	-	-	0.59	0.57	0.59	0.58	0.59
Weighted Average	-	4.03	184.45	0.59	0.57	0.59	1.79	1.84
<b>Burned MBTU's</b>								
Coal	-	-	-	-	-	-	3,651,542	85,659,068
Oil - CC	-	-	-	-	-	-	-	14,910
Oil - Steam/CT	2,043	91	1,854	-	-	-	45,469	945,007
Gas - CC	-	-	-	-	-	-	9,667,120	140,214,736
Gas - CT	530	798,674	-	-	-	-	1,994,845	17,139,676
Biogas	-	-	-	-	-	-	10,869	164,855
Nuclear	-	-	-	8,511,141	7,471,339	5,930,357	21,912,837	306,385,599
Total	2,573	798,765	1,854	8,511,141	7,471,339	5,930,357	37,282,682	550,523,851
<b>Net Generation (mWh)</b>								
Coal	-	-	-	-	-	-	288,885	7,475,010
Oil - CC	-	-	-	-	-	-	-	1,561
Oil - Steam/CT	4	8	16	-	-	-	3,534	55,727
Gas - CC	-	-	-	-	-	-	1,405,302	19,656,637
Gas - CT	(21)	70,191	-	-	-	-	151,112	1,446,566
Biogas	-	-	-	-	-	-	1,450	23,280
Nuclear	-	-	-	815,304	740,789	581,871	2,137,964	29,445,201
Hydro (Total System)	-	-	-	-	-	-	95,428	919,344
Solar (Total System)	-	-	-	-	-	-	19,594	243,635
Total	(17)	70,199	16	815,304	740,789	581,871	4,103,270	59,266,961
<b>Cost of Reagents Consumed (\$)</b>								
Ammonia	-	-	-	-	-	-	\$95,223	\$1,821,659
Limestone	-	-	-	-	-	-	359,201	7,735,380
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	-	-	139,085	3,204,887
Urea	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	\$593,509	\$12,761,926

**Duke Energy Progress**  
**Fuel & Fuel-related Consumption and Inventory Report**  
**MARCH 2021**

Schedule 6  
Page 1 of 2

Description	Mayo	Roxboro	Asheville	Smith Energy Complex	Sutton	Lee	Blewett
<b>Coal Data:</b>							
Beginning balance	278,734	691,677	-	-	-	-	-
Tons received during period	24,237	246,531	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons burned during period	-	145,272	-	-	-	-	-
Ending balance	302,971	792,936	-	-	-	-	-
MBTUs per ton burned	-	25.14	-	-	-	-	-
Cost of ending inventory (\$/ton)	85.10	78.02	-	-	-	-	-
<b>Oil Data:</b>							
Beginning balance	215,268	405,193	4,105,852	6,659,501	2,450,460	-	723,104
Gallons received during period	90,248	246,781	372,704	-	-	-	-
Miscellaneous use and adjustments	(3,801)	(7,517)	-	-	-	-	-
Gallons burned during period	-	301,964	385	-	-	-	-
Ending balance	301,715	342,493	4,478,171	6,659,501	2,450,460	-	723,104
Cost of ending inventory (\$/gal)	1.73	1.68	2.15	2.33	2.80	-	2.37
<b>Natural Gas Data:</b>							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	2,229,642	4,952,919	2,637,398	707,132	-
MCF burned during period	-	-	2,229,642	4,952,919	2,637,398	707,132	-
Ending balance	-	-	-	-	-	-	-
<b>Biogas Data:</b>							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	-	10,507	-	-	-
MCF burned during period	-	-	-	10,507	-	-	-
Ending balance	-	-	-	-	-	-	-
<b>Limestone/Lime Data:</b>							
Beginning balance	19,554	65,526	-	-	-	-	-
Tons received during period	1,184	14,190	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons consumed during period	-	7,485	-	-	-	-	-
Ending balance	20,738	72,231	-	-	-	-	-
Cost of ending inventory (\$/ton)	37.24	44.95	-	-	-	-	-



## Schedule 7

**DUKE ENERGY PROGRESS  
ANALYSIS OF COAL PURCHASED  
MARCH 2021**

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
MAYO	SPOT	-	-	-
	CONTRACT	24,237	\$ 1,791,177	\$ 73.90
	FIXED TRANSPORTATION/ADJUSTMENTS	-	270,717	-
	TOTAL	24,237	\$ 2,061,894	85.07
ROXBORO	SPOT	49,040	\$ 2,481,882	\$ 50.61
	CONTRACT	197,491	12,396,010	62.77
	FIXED TRANSPORTATION/ADJUSTMENTS	-	654,951	-
	TOTAL	246,531	\$ 15,532,843	\$ 63.01
ALL PLANTS	SPOT	49,040	\$ 2,481,882	\$ 50.61
	CONTRACT	221,728	14,187,187	63.98
	FIXED TRANSPORTATION/ADJUSTMENTS	-	925,668	-
	TOTAL	270,768	\$ 17,594,737	\$ 64.98

## Schedule 8

DUKE ENERGY PROGRESS  
ANALYSIS OF COAL QUALITY RECEIVED  
MARCH 2021

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
MAYO	9.18	9.76	12,047	1.91
ROXBORO	6.96	9.27	12,628	1.83

**DUKE ENERGY PROGRESS  
ANALYSIS OF OIL PURCHASED  
MARCH 2021**

	<b>ASHEVILLE CC</b>	<b>MAYO</b>	<b>ROXBORO</b>
<b>VENDOR</b>	Indigo and Charlotte Tank Farm	Greensboro Tank Farm	Indigo and Greensboro Tank Farm
<b>SPOT/CONTRACT</b>	Contract	Contract	Contract
<b>SULFUR CONTENT %</b>	0	0	0
<b>GALLONS RECEIVED</b>	372,704	90,248	246,781
<b>TOTAL DELIVERED COST</b>	\$ 1,041,674	\$ 170,537	\$ 480,943
<b>DELIVERED COST/GALLON</b>	\$ 2.79	\$ 1.89	\$ 1.95
<b>BTU/GALLON</b>	138,000	138,000	138,000



**Duke Energy Progress**  
**Power Plant Performance Data**  
**Twelve Month Summary**  
April, 2020 - March, 2021  
Nuclear Units

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	7,603,327	938	92.53	90.59
Brunswick 2	7,431,921	932	91.03	91.20
Harris 1	8,310,706	964	98.41	96.36
Robinson 2	6,099,247	759	91.73	90.54

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**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
April, 2020 through March, 2021  
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	979,160	225	49.68	67.24
Lee Energy Complex	1B	837,672	227	42.13	58.64
Lee Energy Complex	1C	1,055,170	228	52.83	70.84
Lee Energy Complex	ST1	1,977,757	379	59.57	80.21
Lee Energy Complex	Block Total	4,849,759	1,059	52.28	70.81
Smith Energy Complex	7	922,894	194	54.37	76.44
Smith Energy Complex	8	905,445	194	53.35	75.54
Smith Energy Complex	ST4	1,061,249	183	66.38	83.06
Smith Energy Complex	9	1,392,331	216	73.67	87.72
Smith Energy Complex	10	1,407,174	216	74.45	87.67
Smith Energy Complex	ST5	1,812,581	249	83.10	98.31
Smith Energy Complex	Block Total	7,501,674	1,251	68.48	85.50
Sutton Energy Complex	1A	1,220,734	224	62.21	77.94
Sutton Energy Complex	1B	1,230,177	224	62.69	78.25
Sutton Energy Complex	ST1	1,523,507	271	64.18	88.39
Sutton Energy Complex	Block Total	3,974,418	719	63.10	81.98
Asheville CC	ACC CT5	1,094,763	191	65.61	78.56
Asheville CC	ACC CT7	1,175,222	191	70.43	77.52
Asheville CC	ACC ST6	526,336	90	66.76	71.38
Asheville CC	ACC ST8	559,307	90	70.94	76.08
Asheville CC	Block Total	3,355,628	561	68.28	76.68

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
April, 2020 through March, 2021**

**Intermediate Steam Units**

<b>Unit Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Capacity Factor (%)</b>	<b>Equivalent Availability (%)</b>
Mayo 1	1,089,938	738	16.86	43.59
Roxboro 2	2,161,855	673	36.67	65.87
Roxboro 3	2,082,153	698	34.05	72.50
Roxboro 4	1,311,211	711	21.05	56.49

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
April, 2020 through March, 2021  
Other Cycling Steam Units**

<b>Unit Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Capacity Factor (%)</b>	<b>Operating Availability (%)</b>
Roxboro 1	841,199	380	25.27	77.41

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
April, 2020 through March, 2021  
Combustion Turbine Stations**

<b>Station Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Operating Availability (%)</b>
Asheville CT	130,643	351	92.03
Blewett CT	-205	68	86.03
Darlington CT	1,934	266	87.36
Smith Energy Complex CT	1,065,170	941	86.70
Sutton Fast Start CT	37,702	98	96.69
Wayne County CT	255,594	962	94.53
Weatherspoon CT	110	164	98.89

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data**

SCHEDULE 10  
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**Twelve Month Summary  
April, 2020 through March, 2021  
Hydroelectric Stations**

<b>Station Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Operating Availability (%)</b>
Blewett	65,541	27.0	35.35
Marshall	-228	4.0	41.96
Tillery	329,014	84.3	92.07
Walters	525,016	113.0	63.45

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress**  
**Power Plant Performance Data**  
**Twelve Month Summary**  
**January, 2020 - December, 2020**  
**Nuclear Units**

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	6,917,770	938	83.96	82.51
Brunswick 2	8,088,450	932	98.80	98.40
Harris 1	8,275,593	964	97.73	95.69
Robinson 2	6,124,626	759	91.86	90.64

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
January, 2020 through December, 2020  
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,039,771	225	52.61	72.49
Lee Energy Complex	1B	1,157,910	227	58.07	79.96
Lee Energy Complex	1C	1,150,591	228	57.45	77.86
Lee Energy Complex	ST1	2,305,740	379	69.26	90.05
Lee Energy Complex	Block Total	5,654,012	1,059	60.78	81.53
Richmond County CC	7	954,015	194	55.98	78.74
Richmond County CC	8	938,673	194	55.08	77.94
Richmond County CC	ST4	1,102,306	182	68.95	85.53
Richmond County CC	9	1,320,105	216	69.58	81.10
Richmond County CC	10	1,314,306	216	69.27	79.63
Richmond County CC	ST5	1,720,801	248	78.99	89.87
Richmond County CC	Block Total	7,350,206	1,250	66.94	82.37
Sutton Energy Complex	1A	1,226,982	224	62.36	78.12
Sutton Energy Complex	1B	1,237,878	224	62.91	78.31
Sutton Energy Complex	ST1	1,548,834	271	65.06	88.38
Sutton Energy Complex	Block Total	4,013,694	719	63.55	82.05
Asheville CC	ACC CT5	1,043,253	190	62.51	76.37
Asheville CC	ACC CT7	1,027,585	190	61.57	78.70
Asheville CC	ACC ST6	490,224	90	62.01	67.23
Asheville CC	ACC ST8	399,681	90	50.56	78.24
Asheville CC	Block Total	2,960,743	560	60.19	75.99

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.



**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
January, 2020 through December, 2020**

**Intermediate Steam Units**

<b>Unit Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Capacity Factor (%)</b>	<b>Equivalent Availability (%)</b>
Mayo 1	625,191	746	9.54	53.58
Roxboro 2	1,562,503	673	26.43	55.21
Roxboro 3	1,851,556	698	30.20	73.46
Roxboro 4	1,308,333	711	20.95	62.83

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
January, 2020 through December, 2020  
Other Cycling Steam Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville	1	17,389	192	1.03	6.83
Asheville	2	-1,988	192	-0.12	6.56
Roxboro	1	537,201	380	16.09	69.01

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
January, 2020 through December, 2020  
Combustion Turbine Stations**

<b>Station Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Operating Availability (%)</b>
Asheville CT	178,168	345	94.84
Blewett CT	-342	68	95.41
Darlington CT	1,375	780	45.11
Richmond County CT	1,230,865	934	88.52
Sutton Fast Start CT	64,659	98	95.05
Wayne County CT	175,398	963	94.44
Weatherspoon CT	-62	164	92.15

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data**

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**Twelve Month Summary  
January, 2020 through December, 2020  
Hydroelectric Stations**

<b>Station Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Operating Availability (%)</b>
Blewett	29,136	27.0	15.53
Marshall	-231	4.0	20.13
Tillery	316,756	84.0	95.12
Walters	534,273	113.0	63.92

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.